

Bonneville Power Administration
Conservation and Renewables Discount
Quarterly Program Update
July 27, 2005

Regional Technical Forum (RTF) Recommendations

Since the last C&RD quarterly update on February 11, 2005 the RTF has made the following recommendations.

1. Ellensburg Solar Photovoltaic (PV) Project

The City of Ellensburg asked BPA and the RTF if they could pursue a novel approach to a renewable research, development, and demonstration (RD&D) project for PV. They proposed developing a community-based, highly visible, grid-connected, centralized solar electric project in Ellensburg that will give their customers an opportunity to invest in locally-produced clean electricity. The primary source of funding for a 24 kW (80 solar panel) RD&D project will come from a community partnership between the utility and its customers. In their community investment model, the City of Ellensburg will administer and promote the project. Investments made by utility customers will go primarily to covering the cost of solar modules, while the utility will be responsible for all other project costs, such as infrastructure, operations and maintenance, design development and marketing. If the solar RD&D is successful, the utility would like to continue the program and expand the system to 165 kW over the next five to ten years. The utility asked BPA and the RTF for authorization to utilize up to 20 percent of their C&RD funds to serve as base funding for the project.

The RTF has recommended that BPA approve this project as a qualifying RD&D project under the criteria established for BPA's C&RD program.

BPA Decision: *BPA agrees with the RTF recommendation and has approved the City of Ellensburg's request.*

2. Performance Tested Comfort Systems™ (PTCS™) Equivalent Service Providers

On April 6, 2005 Climate Crafters decided to stop providing PTCS™ duct-sealing certification services. Fortunately, the State Energy Offices from Oregon, Washington, and Idaho have volunteered to step forward as providers. Currently all three states provide certification services for the Energy Star New Home Program. The State Energy Offices from Oregon, Washington and Idaho have petitioned BPA and the RTF for the right to extend this service to existing homes and manufactured homes. They have agreed to meet the same standards that were requested of Climate Crafters.

The RTF has recommended that BPA accept PTCS™ technician and PTCS™ duct system certifications from the following organizations:

Oregon Department of Energy,

Brady Peeks, (503) 373-7561, <mailto:r.brady.peek@state.or.us>.

Washington State University, Energy Program,

Marla Hacklander, 509 477 6703, <mailto:hacklanderm@energy.wsu.edu>.

Idaho Department of Water Resources, Energy Division,

Ken Eklund, (208) 287-4895, <mailto:Ken.Eklund@idwr.idaho.gov>.

BPA Decision: BPA agrees with and has approved the RTF's recommendation. Utilities that wish to claim C&RD credit for PTCS™ duct sealing need to work with the appropriate State Energy Office to get the required PTCS™ duct system certifications before they can claim PTCS duct sealing measures. Utilities will be required to pay the State Energy Offices for any required quality assurance work needed to meet the PTCS specifications and standards.

3. Commercial Food Service Spray Rinse Heads

The RTF recommends that BPA adopt the deemed savings for commercial spray rinse heads shown in the attached spreadsheet labeled "SprayHead.xls." The RTF recognizes that the bulk power system value of this measure far exceeds its installed cost, but does not have a recommendation for the amount of the C&RD credit that should be provided for this measure. These deemed savings should be made available for use in FY 2005.

Deemed Savings Value

http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/SprayHeads.xls

BPA Decision: BPA agrees with the RTF recommendation to approve commercial food service spray rinse heads as a qualifying measure and has approved it for implementation in FY 2005, provided that they are installed in a location where more than one meal a day (i.e., more than 7 meals a week -- breakfast, lunch, dinner, etc.) is served. The RTF also proposed a C&RD credit, based on the value of the energy savings to the bulk power system, of \$504. BPA has decided to limit the C&RD credit to \$150, the incremental cost of installing the measure.

4. Revised Deemed Savings Calculator for Residential Refrigerator Decommissioning

The RTF recommends that BPA adopt the attached revised deemed savings calculator for decommissioning existing in-service residential refrigerators. This deemed savings calculator should be made available for use in FY 2005.

Deemed Savings Calculator

http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/ResFrigDecomCalcv2_1.xls

BPA Decision: BPA agrees with the RTF recommendation and has approved it for implementation in FY 2005.

5. Deemed Residential Refrigerator Decommissioning Credit

As an alternative to the residential refrigerator decommissioning calculator mentioned above, the RTF recommends that BPA adopt the deemed savings value and C&RD credit for residential refrigerator decommissioning as well. The residential refrigerator decommissioning calculator requires that the utility know the make and model of the refrigerator. The new deemed measure will allow utilities to claim \$110 per decommissioned residential refrigerator provided the claimed unit meets the following criteria:

- The unit must be at least 14 cubic feet or greater in capacity.
- The utility must verify that the unit is in operating condition.
- The utility must be able to document that the unit was decommissioned and recycled.

BPA Decision: *BPA agrees with the RTF recommendation and has approved it for implementation in FY 2005.*

6. Deemed Savings Calculation for Commercial Refrigerated Cooler Controls

The RTF recommends that BPA adopt the energy savings measurement and verifications methodology used by National Resource Management (NRM) to establish the savings from refrigerator evaporator fan controls, anti-sweat heater controllers, fan motor replacement (ECM); self-contained beverage cooler controllers (time-controlled); and case lighting upgrades. The RTF further recommends that the use of this calculation method be pilot tested in at least ten projects to assess whether the nameplate rating of the inductive loads controlled by the system should be modified to account for lower power factors and whether power factor measurements should be added to the methodology.

Deemed Savings Calculator

http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/ReferCaseCalc.xls

Monitoring & Verification (M&V) Protocol

http://www.bpa.gov/Energy/N/Projects/cr_discount/pdf/BPA_MVProjectTemplate.pdf

BPA Decision: *BPA agrees with the RTF recommendation and has approved the deemed calculator for implementation in FY 2005, with the following conditions: utilities must notify BPA before the project is installed, the attached M&V Protocol must be followed and the results of the M&V must be reported to BPA.*

7. Energy Star Commercial Clothes Washer Deemed and Deemed Calculator

The RTF recommends that BPA adopt the deemed savings values contained in the attached spreadsheet labeled "EstarWasherComTiers(6-13-05).xls" for Energy Star labeled commercial clothes washers used in coin-operated laundry faculties or common area laundry facilities in multifamily residential settings shared by more than four units. The savings are based on the same two energy efficiency tiers as are being used in residential ENERGY STAR clothes washers (Tier 1 = MEF 1.42 to 1.79, Tier 2 = MEF 1.8 and above).

Deemed Savings Values

[http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/EStarWasherComTiers\(6-13-05\).xls](http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/EStarWasherComTiers(6-13-05).xls)

The RTF has also recommended that BPA adopt the attached deemed savings calculators labeled "EStarComClothesWasherCalc1_0(4-28-05).xls" as the basis for determining savings and C&RD credits for specific Energy Star models. These deemed savings and the deemed savings calculator should be made available for use in FY 2005.

Deemed Savings Calculator

[http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/EStarComClothesWasherCalc1_0\(4-28-05\).xls](http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/EStarComClothesWasherCalc1_0(4-28-05).xls)

BPA's Decision: BPA has decided to approve the RTF's recommendation and adjust the energy savings for Commercial Clothes Washers to reflect the changes made by the ENERGY STAR Program. In addition, BPA has decided to implement a tiered approach that determines the credit based on the Modified Energy Factor (MEF), and water heater/ dryer fuel types. This approach will allow lower credit for units that had a MEF of 1.42 to 1.79 under Tier 1 and a higher credit for units with a MEF of 1.8 or higher under Tier 2. Most Commercial Clothes Washers already meet the MEF 1.42 to 1.79 requirement. If a customer decides not to keep track of the Commercial Clothes Washers MEF they will only be able to claim the Tier 1 C&RD credit. The Commercial Clothes Washer Deemed Calculator will also be updated to reflect the changes made by the ENERGY STAR Program.

8. Revised Deemed Savings Estimates for Networked PC Power Management Software

The RTF recommends that BPA adopt the revised deemed savings estimates for Surveyor (R) software to reflect the change in the market share of CRT and LCD computer monitors. This change does not result in a modification of the C&RD credit and, therefore, be made available for use in FY 2005.

Deemed Savings Values

[http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/EZConserve\(4-28-05\).xls](http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/EZConserve(4-28-05).xls)

BPA Decision: BPA agrees with the RTF recommendation and has approved it for implementation in FY 2005.

9. Revised Deemed Savings Estimates for LED Traffic Signals

The RTF recommends that BPA adopt the revised deemed savings estimates for the conversion to ENERGY STAR LED traffic signals. This revision changes the estimated cost of this measure but does not change the estimated savings. It does not result in a modification of the C&RD credit. Therefore, the RTF recommends that this revised value be made available for use in FY 2005.

Deemed Savings Values

[http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/LEDTrafficSignals_rev\(4-28-05\).xls](http://www.bpa.gov/Energy/N/Projects/cr_discount/xls/LEDTrafficSignals_rev(4-28-05).xls)

BPA Decision: *BPA agrees with the RTF recommendation and has approved it for implementation in FY 2005.*